

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number
WO 2005/094334 A3

(51) International Patent Classification:
A61B 17/08 (2006.01) *A61F 2/06* (2006.01)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:
PCT/US2005/010469

(22) International Filing Date: 28 March 2005 (28.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10/811,079 26 March 2004 (26.03.2004) US

(71) Applicant (for all designated States except US): INTEGRATED VASCULAR INTERVENTIONAL TECHNOLOGIES, LC [US/US]; 825 North 300 West, Suite NE 302, Salt Lake City, UT 84103 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): BLATTER, Duane, D. [US/US]; 4220 Brockbank Way, Salt Lake City, UT 84124 (US). ORR, Troy, J. [US/US]; 12216 Cypress Point Way, Draper, UT 84020 (US). BARRUS, Michael, C. [US/US]; 9480 Virginia Center Boulevard #335, Vienna, VA 22181 (US).

(74) Agent: LAURENCE, Kevin, B.; Stoel Rives LLP, One Utah Center, 201 So. Main Street, Suite 1100, Salt Lake City, UT 84111 (US).

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

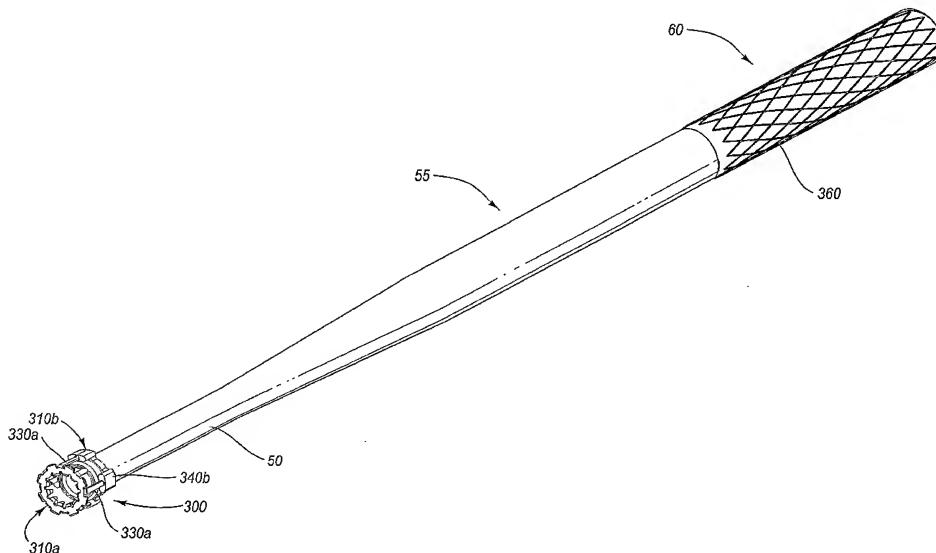
- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:

12 July 2007

[Continued on next page]

(54) Title: STENTED END GRAFT VESSEL DEVICE FOR ANASTOMOSIS AND RELATED OPERATOR AND METHODS FOR PERCUTANEOUS PLACEMENT



WO 2005/094334 A3

(57) Abstract: Fluid communication between vessels is obtained by joining a vessel with a graft vessel in an end-to-side anastomosis at one end of the graft vessel and by joining another vessel in a side-to-side anastomosis at the other end of the graft vessel. A compression ring device and a concentrically configured operator enable the end-to-side anastomosis to be achieved in an interdigitated configuration while controlling blood flow. A stent enables the end-to-end anastomosis to be achieved.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10469

A. CLASSIFICATION OF SUBJECT MATTER
IPC: A61B 17/08(2006.01);A61F 2/06(2006.01)

USPC: 606/151,153;623/1.13
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 606/151,153;623/1.13

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,428,550 B1 (VARGAS et al) 06 August 2002 (06.08.2002) see entire document.	1-5,7-14,19-21,26-48
---		-----
Y		15-18,22-25
A	US 5,456,714 A (OWEN) 10 October 1995 (10.10.1995), see entire document.	49-51

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O" document referring to an oral disclosure, use, exhibition or other means		
"P" document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search
22 April 2007 (22.04.2007)

Date of mailing of the international search report

21 MAY 2007

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P O Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201

Authorized officer

Darwin P. Erezo
Telephone No. 703-308-0858